

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/072, 012 A

Source: 1FW/6

Date Processed by STIC: 2/27/07

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/072,012A

TIME: 10:54:56

Input Set : F:\Cura 558 US Seq List.txt

Output Set: N:\CRF4\02272007\J072012A.raw

3 <110> APPLICANT: Tchernev, Velizar  
4 Spytek, Kimberly  
5 Zerhusen, Bryan  
6 Patturajan, Meera  
7 Shimkets, Richard  
8 Li, Li  
9 Gangolli, Esha  
10 Padigar, Muralidhara  
11 Anderson, David W.  
12 Rastelli, Luca  
13 Miller, Charles E.  
14 Gerlach, Valerie  
15 Taupier Jr, Raymond J.  
16 Gusev, Vladimir Y.  
17 Colman, Steven D.  
18 Wolenc, Adam R.  
19 Pena, Carol E. A  
20 Furtak, Katarzyna  
21 Grosse, William M.  
22 Alsobrook II, John P.  
23 Lepley, Denise M.  
24 Rieger, Daniel K.  
25 Burgess, Catherine E.  
27 <120> TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
29 <130> FILE REFERENCE: 21402-258  
31 <140> CURRENT APPLICATION NUMBER: 10/072,012A  
32 <141> CURRENT FILING DATE: 2002-01-31  
34 <150> PRIOR APPLICATION NUMBER: 60/265,102  
35 <151> PRIOR FILING DATE: 2001-01-30  
37 <150> PRIOR APPLICATION NUMBER: 60/265,514  
38 <151> PRIOR FILING DATE: 2001-01-31  
40 <150> PRIOR APPLICATION NUMBER: 60/265,517  
41 <151> PRIOR FILING DATE: 2001-01-31  
43 <150> PRIOR APPLICATION NUMBER: 60/265,412  
44 <151> PRIOR FILING DATE: 2001-01-31  
46 <150> PRIOR APPLICATION NUMBER: 60/265,395  
47 <151> PRIOR FILING DATE: 2001-01-31  
49 <150> PRIOR APPLICATION NUMBER: 60/266,406  
50 <151> PRIOR FILING DATE: 2001-02-02  
52 <150> PRIOR APPLICATION NUMBER: 60/266,767  
53 <151> PRIOR FILING DATE: 2001-02-05  
55 <150> PRIOR APPLICATION NUMBER: 60/267,057  
56 <151> PRIOR FILING DATE: 2001-02-07

*see p. 6*

## RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/072,012A

TIME: 10:54:56

Input Set : F:\Cura 558 US Seq List.txt

Output Set: N:\CRF4\02272007\J072012A.raw

```

58 <150> PRIOR APPLICATION NUMBER: 60/266,975
59 <151> PRIOR FILING DATE: 2001-02-07
61 <150> PRIOR APPLICATION NUMBER: 60/267,459
62 <151> PRIOR FILING DATE: 2001-02-08
64 <150> PRIOR APPLICATION NUMBER: 60/267,823
65 <151> PRIOR FILING DATE: 2001-02-09
67 <150> PRIOR APPLICATION NUMBER: 60/268,974
68 <151> PRIOR FILING DATE: 2001-02-15
70 <150> PRIOR APPLICATION NUMBER: 60/271,855
71 <151> PRIOR FILING DATE: 2001-02-27
73 <150> PRIOR APPLICATION NUMBER: 60/271,839
74 <151> PRIOR FILING DATE: 2001-02-27
76 <150> PRIOR APPLICATION NUMBER: 60/273,046
77 <151> PRIOR FILING DATE: 2001-03-02
79 <150> PRIOR APPLICATION NUMBER: 60/272,788
80 <151> PRIOR FILING DATE: 2001-03-02
82 <150> PRIOR APPLICATION NUMBER: 60/275,989
83 <151> PRIOR FILING DATE: 2001-03-14
85 <150> PRIOR APPLICATION NUMBER: 60/275,925
86 <151> PRIOR FILING DATE: 2001-03-14
88 <150> PRIOR APPLICATION NUMBER: 60/275,947
89 <151> PRIOR FILING DATE: 2001-03-14
91 <160> NUMBER OF SEQ ID NOS: 1394
93 <170> SOFTWARE: PatentIn Ver. 2.1
95 <210> SEQ ID NO: 1
96 <211> LENGTH: 687
97 <212> TYPE: DNA
98 <213> ORGANISM: Homo sapiens
100 <400> SEQUENCE: 1
102 tgactatggc ctggagtttc cgtgcaaaag tccagctcgg ggggctactt ctctccctcc 60
104 ttggctgggt ctgctcctgt gttaccacca tccctgcccc gtggaagact cttaatctgg 120
107 aactgaacga gatggagacc tggatcatgg ggatttggga ggtctgcgtg gatcgagagg 180
110 aagtcgccac tgtgtgcaag gcctttgaat ccttcttgtc tctgccccag gagctccagg 240
112 tagcccgcat cctcatggta gcctcccatg ggctgggcct attggggctt ttgctctgca 300
114 gctttgggtc tgaatgcttc cagtttcaca ggatcagatg ggtattcaag aggcggcttg 360
116 gtctcctggg aaggactttg gaggcacccg cttcagccac taccctcctt ccagtctcct 420
118 ggggtggcca tgccacaatc caagacttct gggatgacag catccctgac atcataccct 480
120 cggtgggagt ttggaggtgc cctctacttg ggctgggctg ctgggtatatt cctggctctt 540
122 ggtgggctac tctcatctt ctcggcctgc ctgggaaaag aagatgtgcc ttttcctttg 600
125 atggctggtc ccacagtcct cctatcctgt gctccagtgg aggagtcaga tggctccttc 660
127 cacctcatgc taagacctag gaacctg                                     687
130 <210> SEQ ID NO: 2
131 <211> LENGTH: 229
132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 2
136 Met Ala Trp Ser Phe Arg Ala Lys Val Gln Leu Gly Gly Leu Leu Leu
137 1          5          10          15
139 Ser Leu Leu Gly Trp Val Cys Ser Cys Val Thr Thr Ile Leu Pro Gln

```

## RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/072,012A

TIME: 10:54:56

Input Set : F:\Cura 558 US Seq List.txt

Output Set: N:\CRF4\02272007\J072012A.raw

```

140          20          25          30
142 Trp Lys Thr Leu Asn Leu Glu Leu Asn Glu Met Glu Thr Trp Ile Met
143          35          40          45
145 Gly Ile Trp Glu Val Cys Val Asp Arg Glu Glu Val Ala Thr Val Cys
146          50          55          60
148 Lys Ala Phe Glu Ser Phe Leu Ser Leu Pro Gln Glu Leu Gln Val Ala
149 65          70          75          80
151 Arg Ile Leu Met Val Ala Ser His Gly Leu Gly Leu Leu Gly Leu Leu
152          85          90          95
154 Leu Cys Ser Phe Gly Ser Glu Cys Phe Gln Phe His Arg Ile Arg Trp
155          100          105          110
157 Val Phe Lys Arg Arg Leu Gly Leu Leu Gly Arg Thr Leu Glu Ala Ser
158          115          120          125
160 Ala Ser Ala Thr Thr Leu Leu Pro Val Ser Trp Val Ala His Ala Thr
161          130          135          140
163 Ile Gln Asp Phe Trp Asp Ser Ile Pro Asp Ile Ile Pro Arg Trp
164 145          150          155          160
166 Glu Phe Gly Gly Ala Leu Tyr Leu Gly Trp Ala Ala Gly Ile Phe Leu
167          165          170          175
169 Ala Leu Gly Gly Leu Leu Leu Ile Phe Ser Ala Cys Leu Gly Lys Glu
170          180          185          190
172 Asp Val Pro Phe Pro Leu Met Ala Gly Pro Thr Val Pro Leu Ser Cys
173          195          200          205
175 Ala Pro Val Glu Glu Ser Asp Gly Ser Phe His Leu Met Leu Arg Pro
176          210          215          220
178 Arg Asn Leu Val Ile
179 225
182 <210> SEQ ID NO: 3
183 <211> LENGTH: 687
184 <212> TYPE: DNA
185 <213> ORGANISM: Homo sapiens
187 <400> SEQUENCE: 3
189 tgactatggc ctggagtttc cgtgcaaaag tccagctcgg ggggctactt ctctccctcc 60
191 ttggctgggt ctgctcctgt gttaccacca tcctgcccc a gtggaagact cttaatctgg 120
194 aactgaacga gatggagacc tggatcatgg ggatttggga ggtctgcgtg gatcgagagg 180
196 aagtcgccac tgtgtgcaag gcctttgaat ccttcttgtc tctgccccag gagctccagg 240
198 tagcccgcat cctcatggta gcctcccatg ggctgggcct attggggctt ttgctctgca 300
200 gctttgggtc tgaatgcttc cagtttcaca ggatcagatg ggtattcaag aggcggcttg 360
202 gtctcctggg aaggactttg gaggcattcg ctccagccac taccctcctt ccagtctcct 420
204 ggggtggcca tgccacaatc caagacttct gggatgacag catccctgac atcataccct 480
206 cgggtgggag ttggaggtgc cctctacttg ggctgggctg ctggtatttt cctggctcct 540
208 ggtgggctac tcctcatctt ctcggcctgc ctgggaaaag aagatgtgcc ttttcctttg 600
210 atggctggtc ccacagtcct cctatcctgt gctccagtgg aggagtcaga tggctccttc 660
212 cacctcatgc taagacctag gaacctg 687
215 <210> SEQ ID NO: 4
216 <211> LENGTH: 224
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 4

```

## RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/072,012A

TIME: 10:54:56

Input Set : F:\Cura 558 US Seq List.txt

Output Set: N:\CRF4\02272007\J072012A.raw

```

221 Met Ala Trp Ser Phe Arg Ala Lys Val Gln Leu Gly Gly Leu Leu Leu
222   1           5           10           15
224 Ser Leu Leu Gly Trp Val Cys Ser Cys Val Thr Thr Ile Leu Pro Gln
225           20           25           30
227 Trp Lys Thr Leu Asn Leu Glu Leu Asn Glu Met Glu Thr Trp Ile Met
228           35           40           45
230 Gly Ile Trp Glu Val Cys Val Asp Arg Glu Glu Val Ala Thr Val Cys
231           50           55           60
233 Lys Ala Phe Glu Ser Phe Leu Ser Leu Pro Gln Glu Leu Gln Val Ala
234   65           70           75           80
236 Arg Ile Leu Met Val Ala Ser His Gly Leu Gly Leu Leu Gly Leu Leu
237           85           90           95
239 Leu Cys Ser Phe Gly Ser Glu Cys Phe Gln Phe His Arg Ile Arg Trp
240           100          105          110
242 Val Phe Lys Arg Arg Leu Gly Leu Leu Gly Arg Thr Leu Glu Ala Ser
243           115          120          125
245 Ala Ser Ala Thr Thr Leu Leu Pro Val Ser Trp Val Ala His Ala Thr
246           130          135          140
248 Ile Gln Asp Phe Trp Asp Asp Ser Ile Pro Asp Ile Ile Pro Ser Val
249 145           150          155          160
251 Gly Val Trp Arg Cys Pro Leu Leu Gly Leu Gly Cys Trp Tyr Phe Pro
252           165          170          175
254 Gly Ser Trp Trp Ala Thr Pro His Leu Leu Gly Leu Pro Gly Lys Arg
255           180          185          190
257 Arg Cys Ala Phe Ser Phe Asp Gly Trp Ser His Ser Pro Pro Ile Leu
258           195          200          205
260 Cys Ser Ser Gly Gly Val Arg Trp Leu Leu Pro Pro His Ala Lys Thr
261           210          215          220
267 <210> SEQ ID NO: 5
268 <211> LENGTH: 642
269 <212> TYPE: DNA
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 5
274 tgactatggc ctggagtttc cgtgcaaaag tccagctcgg ggggctactt ctctccctcc 60
276 ttggctgggt ctgctcctgt gttaccacca tcctgcccca gtggaagact cttaatctgg 120
278 aactgaacga gatggagacc tggatcatgg ggatttggga ggtctgcgtg gatcgagagg 180
280 aagtcgccac tgtgtgcaag gcctttgaat ccttcttgtc tctgccccag gagctccagt 240
282 ttcacaggat cagatgggta ttcaagaggc ggcttggtct cctgggaagg actttggagg 300
284 catccgcttc agccactacc ctcttccag tctcctgggt ggcccatgcc acaatccaag 360
286 acttctggga tgacagcatc cctgacatca tacctcgggt ggagtttgga ggtgccctct 420
288 acttgggctg ggctgctggt attttcctgg ctcttggtgg gctactcttc atcttctcgg 480
290 cctgcctggg aaaagaagat gtgccttttc ctttgatggc tgggtcccaca gtccccctat 540
292 cctgtgctcc agtggaggag tcagatggct ccttccacct catgctaaga cctaggaacc 600
294 tggtcatacta ggactggctt ctgccaagga tctctggaat aa 642
297 <210> SEQ ID NO: 6
298 <211> LENGTH: 201
299 <212> TYPE: PRT
300 <213> ORGANISM: Homo sapiens
302 <400> SEQUENCE: 6

```

## RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/072,012A

TIME: 10:54:56

Input Set : F:\Cura 558 US Seq List.txt

Output Set: N:\CRF4\02272007\J072012A.raw

```

303 Met Ala Trp Ser Phe Arg Ala Lys Val Gln Leu Gly Gly Leu Leu Leu
304   1           5           10           15
306 Ser Leu Leu Gly Trp Val Cys Ser Cys Val Thr Thr Ile Leu Pro Gln
307           20           25           30
309 Trp Lys Thr Leu Asn Leu Glu Leu Asn Glu Met Glu Thr Trp Ile Met
310           35           40           45
312 Gly Ile Trp Glu Val Cys Val Asp Arg Glu Glu Val Ala Thr Val Cys
313           50           55           60
315 Lys Ala Phe Glu Ser Phe Leu Ser Leu Pro Gln Glu Leu Gln Phe His
316   65           70           75           80
318 Arg Ile Arg Trp Val Phe Lys Arg Arg Leu Gly Leu Leu Gly Arg Thr
319           85           90           95
321 Leu Glu Ala Ser Ala Ser Ala Thr Thr Leu Leu Pro Val Ser Trp Val
322           100          105          110
324 Ala His Ala Thr Ile Gln Asp Phe Trp Asp Asp Ser Ile Pro Asp Ile
325           115          120          125
327 Ile Pro Arg Trp Glu Phe Gly Gly Ala Leu Tyr Leu Gly Trp Ala Ala
328           130          135          140
330 Gly Ile Phe Leu Ala Leu Gly Gly Leu Leu Leu Ile Phe Ser Ala Cys
331 145           150          155          160
333 Leu Gly Lys Glu Asp Val Pro Phe Pro Leu Met Ala Gly Pro Thr Val
334           165          170          175
336 Pro Leu Ser Cys Ala Pro Val Glu Glu Ser Asp Gly Ser Phe His Leu
337           180          185          190
339 Met Leu Arg Pro Arg Asn Leu Val Ile
340           195          200
343 <210> SEQ ID NO: 7
344 <211> LENGTH: 726
345 <212> TYPE: DNA
346 <213> ORGANISM: Homo sapiens
348 <400> SEQUENCE: 7
350 tgactatggc ctggagtttc cgtgcaaaag tccagctcgg ggggctactt ctctccctcc 60
352 ttggctgggt ctgttcctgt gttaccacca tctgccccca gtggaagact cttaatctgg 120
354 aactgaacga gatggagacc tggatcatgg ggatttggga ggtctgcgtg gatcgagagg 180
356 aagtcgccac tgtgtgcaag gcctttgaat ccttcttgtc tctgccccag gagctccagg 240
358 tagcccgcat cctcatggta gcctcccatg ggctgggcct attggggcct ttgctctgca 300
360 gctttgggtc tgaatgcttc cagtttcaca ggatcagatg ggtattcaag aggcggcttg 360
362 gtctcctggg aaggactttg gaggcacccg cttcagccac taccctcctt ccagtctcct 420
364 ggggtggcca tgccacaatc caagacttct gggatgacag catccctgac atcatacctc 480
366 ggtgggagtt tggaggtgcc ctctacttgg gctgggctgc tgggtatttc ctggctcttg 540
368 gtgggctact cctcatcttc tcggcctgcc tgggaaaaga agatgtgcct tttcctttga 600
370 tggctgggtc cacagtcccc ctatcctgtg ctccagtgga ggagtcagat ggctccttcc 660
372 acctcatgct aagacctagg aacctgggtc tctaggactg gcttctgcca aggatctctg 720
374 gaataa
377 <210> SEQ ID NO: 8
378 <211> LENGTH: 229
379 <212> TYPE: PRT
380 <213> ORGANISM: Homo sapiens
382 <400> SEQUENCE: 8

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/072,012A

DATE: 02/27/2007  
TIME: 10:54:57

Input Set : F:\Cura 558 US Seq List.txt  
Output Set: N:\CRF4\02272007\J072012A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:193; N Pos. 2448,2454,2455,2456,3490,3610  
Seq#:338; Xaa Pos. 15  
Seq#:430; Xaa Pos. 40,41,42,43,44,45,46  
Seq#:467; Xaa Pos. 891  
Seq#:468; Xaa Pos. 890,1762,1786  
Seq#:469; Xaa Pos. 891,1763,1787  
Seq#:596; Xaa Pos. 41  
Seq#:698; Xaa Pos. 40,41,42,43,44,45,46  
Seq#:702; Xaa Pos. 469  
Seq#:775; Xaa Pos. 164  
Seq#:779; Xaa Pos. 15

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:860; Line(s) 75299

## VERIFICATION SUMMARY

DATE: 02/27/2007

PATENT APPLICATION: US/10/072,012A

TIME: 10:54:57

Input Set : F:\Cura 558 US Seq List.txt

Output Set: N:\CRF4\02272007\J072012A.raw

L:13621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:193 after pos.:2400  
M:341 Repeated in SeqNo=193  
L:25066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338 after pos.:0  
L:33545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:430 after pos.:32  
L:36401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:467 after pos.:880  
L:36903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:468 after pos.:880  
M:341 Repeated in SeqNo=468  
L:37405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:469 after pos.:880  
M:341 Repeated in SeqNo=469  
L:52228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:596 after pos.:32  
L:61143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:698 after pos.:32  
L:61626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:702 after pos.:464  
L:68853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:775 after pos.:160  
L:69189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:779 after pos.:0